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CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR PILING DATE APPLICATION NO. 7783 GODG-1610 Steven R. Sweitzer. 03/16/2001 09/811,355 EXAMINER 10/18/2004 7590 ODOM, CURTIS B Seong-Kun Oh PAPER NUMBER Sierra Patent Group, Ltd. ART UNIT P.O. Box 6149 2634 Stateline, NV 89449

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/811,355	SWEITZER, STE	EVEN R.
Office Action Summary	Examiner	Art Unit	
	Curtis B. Odom	2634	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a recommunication of the period for reply is specified above, the maximum statutory perions for the period for reply within the set or extended period for reply will, by statue to reply merceived by the Office later than three months after the maine earned patent term adjustment. See 37 CFR 1.704(b). Status	1.136(a). In no event, however, ma eply within the statutory minimum of d will apply and will expire SIX (6)	y a reply be timely filed thirty (30) days will be considered tim MONTHS from the mailing date of this ARANDONED (35 U.S.C. § 133).	nely. communication.
	March 2001.		
1) Responsive to communication(s) filed on 16 March 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1,3-5,7,8 and 19 is/are allowed. 6) Claim(s) 2,6,9-18,20 and 21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers	sinor		
9) The specification is objected to by the Exam 10) The drawing(s) filed on 16 March 2001 is/ar Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	e: a) accepted or b) the drawing(s) be held in all the drawing is required if the drawing is required in the drawing in the drawing is required in the drawing is required in the drawing is required in the drawing in the drawing is required in the drawing is requir	awing(s) is objected to. See 3	7 CFR 1.121(d).
Priority under 35 U.S.C. § 119			l
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date	8) Pa ₁	erview Summary (PTO-413) per No(s)/Mail Date tice of Informal Patent Application ner:	n (PTO-152)

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DETAILED ACTION

Drawings

1. New corrected drawings are required in this application because the handwritten reference character and numerals make the illustrations difficult to interpret. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Claim Objections

- 2. Claim 18 is objected to because of the following informalities:
 - a. The phrase "the time period" is suggested to be changed to "a time period".
- b. The phrase "the reception" is suggested to be changed to "a reception".
 Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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4. Claims 2, 6, 10, 13, and 16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claims 2, 6, 10, 13, and 16 recite the claim limitations "B/Bbar signal" and "A/Abar signal". However, after reviewing the specification, there is no clear/concise definition or function describing a "B/Bbar signal" or "A/Abar signal" which would enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The examiner also searched the U. S. Patent and IEEEXplore databases, but could not find a definition or function for a "B/Bbar signal" or "A/Abar signal".

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 9, 12, 15, 17, 18, 20, and 21 are rejected under 35 U.S.C. 102(e) as being anticipated by Scott (U. S. Patent No. 5, 953, 658).

Regarding claim 9, Scott discloses a method of altering a round trip delay measurement in a communication system, comprising the steps of:

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monitoring (Fig. 1, block 10, column 8, lines 58-64) an upstream data transmission path for a predetermined tone sequence (tone A phase reversal signal);

generating (Fig. 1, block 10, column 8, line 62-column 9, line 6) an artificial delay signal (signal delay of 30 ms) upon detecting the predetermined tone sequence, the artificial delay signal being shorter than an actual delay signal (predetermined signal delay of 40+/-1); and introducing (Fig. 1, block 10, column 9, lines 6-16) a phase reversal (tone B phase reversal) in the downstream data transmission path.

Regarding claim 12, Scott discloses an apparatus (Fig. 1) for altering a round trip delay measurement in a communication system, comprising:

a detector (Fig. 1, block 10, column 8, lines 58-64) for monitoring an upstream data transmission path for a predetermined tone sequence (tone A phase reversal signal);

a delay unit (Fig. 1, block 10, column 8, line 62-column 9, line 6) for generating an artificial delay signal (signal delay of 30 ms) when the predetermined tone sequence is detected, the artificial delay signal being shorter than an actual delay signal (predetermined signal delay of 40+/-1); and

a phase reversal unit (Fig. 1, block 10, column 9, lines 6-16) for providing a phase reversal in the downstream data transmission path (tone B phase reversal).

Regarding claim 15, Scott discloses round trip delay measurement method, comprising the steps of

monitoring (Fig. 1, block 10, column 8, lines 58-64) a downstream data transmission path for a predetermined tone sequence (tone A phase reversal signal);

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generating (Fig. 1, block 10, column 8, line 62-column 9, line 6) a delay signal (signal delay of 30 ms) upon detecting the predetermined tone sequence; and

introducing (Fig. 1, block 10, column 9, lines 6-16) a phase reversal in an upstream data transmission path (tone B phase reversal).

Regarding claim 17, which inherits the limitations of claim 16, Scott discloses transmitting the predetermined tone sequence and receiving the phase reversal (Fig. 1, block 26, column 8, line 58-column 9, line 15).

Regarding claim 18, which inherits the limitations of claim 17, Scott discloses the round trip delay includes a time period for the transmission of the tone sequence to the reception of the phase reversal (column 9, lines 6-15).

Regarding claims 20 and 21, the claimed apparatus includes features corresponding to subject matter mentioned in the above rejection of claims 12 and 15 which is applicable hereto.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Scott (U. S. Patent No. 5, 953, 658).

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Regarding claims 11 and 14, Scott discloses all the limitations of claims 11 and 14 (see rejection of claims 9 and 12), except the communication system includes a pair gain system. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made that pair gain systems are well known in the art and enable signals to be transmitted at a high rate, over longer distances, and with increased quality. Pair gain systems also provide the additional benefit of enabling multiple subscriber lines to be served by a single twisted pair line. Thus, it would have been obvious to include a pair gain system in the communication system; therefore, claims 11 and 14 do not constitute patentability.

Allowable Subject Matter

9. Claims 1, 3-5, 7, 8, and 19 are allowable over prior art references because related references do not disclose a method/apparatus of altering a round trip delay measurement in a communication system, comprising receiving a signal; determining whether a predetermined tone sequence is detected; and processing the signal and generating a corresponding digital signal; wherein when the tone sequence is detected, routing the processed signal to an output terminal, and further, wherein if the tone sequence is not detected, routing the original signal to the output terminal.

Conclusion

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- The prior art made of record and not relied upon is considered pertinent to applicant's 10. disclosure. Abdelilah et al. (U. S. Patent No. 6, 661, 837) discloses a method of measuring round trip delay by compensating for the improper reception of a tone sequence.
- Any inquiry concerning this communication or earlier communications from the 11. examiner should be directed to Curtis B. Odom whose telephone number is 571-272-3046. The examiner can normally be reached on Monday- Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Curtis Odom October 13, 2004

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